



09/941224

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	Customer No.: 21140
	)	
Zatezalo et al.	)	Art Unit: 3737
	)	
Patent No.: 7,079,886	)	Confirmation No.: 5672
	)	
Issued: July 18, 2006	)	Examiner: Jung, William C.
	)	
For: APPARATUS AND METHOD FOR	)	Docket No.: VI/99-016.C
PROGRAMMING A KVO PHASE	)	
AND A FIRST PHASE OF AN	)	Date: October 6, 2006
INJECTION PROCEDURE AS A	)	
FLUSHING MEDIUM PHASE	)	

REQUEST FOR CERTIFICATE OF CORRECTION  
TO CORRECT  
PATENTEE'S MISTAKES

**Certificate**  
OCT 16 2006  
**of Correction**

Commissioner for Patents  
Certificate of Correction Branch  
P.O. Box 1450  
Alexandra, VA 22313-1450

10/12/2006 BABRAHA2 00000097 132530 7079886  
01 FC:1811 100.00 DA

Sir/Madam:

MEDRAD, Inc., assignee of U.S. Patent 7,079,886 ("886 patent") issued July 18, 2006, hereby requests that the changes noted on the attached Form-1050 be made to the referenced patent, and that an official *Certificate of Correction* be issued by the U.S. Patent and Trademark Office (USPTO) pursuant to 37 C.F.R. §1.323.

Pursuant to 37 C.F.R. §3.73, the assignee affirms that it is the sole owner of the '886 patent by virtue of a chain assignments from the inventors to MEDRAD, Inc., the current assignee. As of today's date, all of the assignments in the chain have been

OCT 17 2006

recorded with the ASSIGNMENT DIVISION OF THE USPTO. A copy of the records are attached hereto. Furthermore, as required by 37 C.F.R. §3.73(2)(i), the undersigned is authorized to act on behalf of the assignee, and such authorization is already a matter of record.

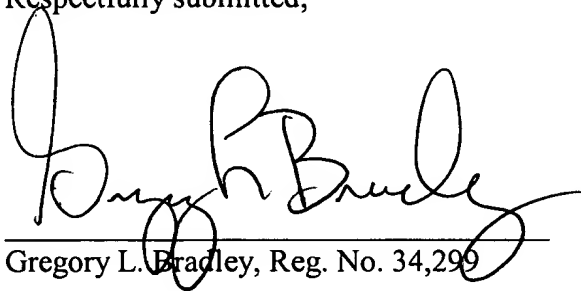
The requested corrections are necessary to correct several mistakes. The location of the mistakes and the corrections to be made therefore are shown in the attached Form-1050, in duplicate, with at least one copy being suitable for printing. The errors occurred at the time of filing of the application for patent, and were inadvertent and made without deceptive intent. The errors are all of a clerical, typographical and/or minor character, and their correction does not require reexamination or introduce any new matter into the patent.

Assignee hereby requests that the *Certificate of Correction* be issued in due course and that the original be sent to the undersigned counsel of record for Assigned and Patentee.

Assignee hereby authorized payment of the required fee of \$100, imposed by 37 C.F.R. §1.20(a), for correction of the mistakes to Deposit Account 13-2530.

Prompt issuance of the *Certificate of Correction* is respectfully requested. If the recipient of this correspondence has any questions regarding the matters addressed herein, the recipient is invited to call the undersigned at the telephone number listed below.

Respectfully submitted,



Gregory L. Bradley, Reg. No. 34,299

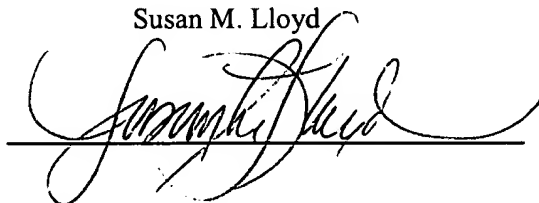
Date: October 6, 2006

MEDRAD, Inc.  
One Medrad Drive  
Indianola, Pa 15051  
412-767-2400

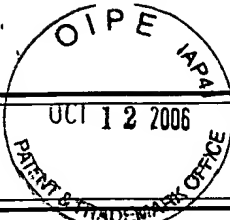
CERTIFICATE OF MAILING

I hereby certify that this paper (along with any referred to as being attached or enclosed) is being deposited with the United States Postal Service on October 6, 2006, with sufficient postage as first-class mail in an envelope addressed to: Commissioner of Patents, Certificate of Correction Branch, PO Box 1450, Alexandria, VA 22313-1450.

Susan M. Lloyd



OCT 17 2006



**TRANSMITTAL LETTER**  
**(General - Patent Issued)**

Docket No.  
VI/99-016.C

Patentee(s): Zafezalo et al.

U.S. Patent No.

7,079,886

Issue Date

July 18, 2006

Title: **APPARATUS AND METHOD FOR PROGRAMMING A KVO PHASE AND A FIRST PHASE OF AN INJECTION PROCEDURE AS A FLUSHING MEDIUM PHASE**

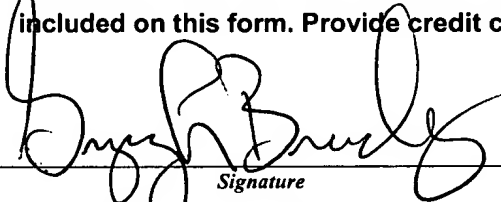
COMMISSIONER FOR PATENTS:

Transmitted herewith is:

**Request for Certificate of Correction including required \$100 fee under 37 CFR 1.20(a), Certificate of Correction (in duplicate), and a copy of the recordal of the assignment of '886 patent to MEDRAD, Inc.**

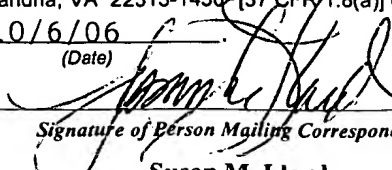
- ☐ No additional fee is required.
- ☐ A check in the amount of \_\_\_\_\_ is attached.
- ☒ The Director is hereby authorized to charge and credit Deposit Account 13-2530 as described below.
- ☒ Charge the amount of \$100.00
- ☒ Credit any overpayment.
- ☒ Charge any additional fee required.
- ☐ Payment by credit card. Form PTO-2038 is attached.

**WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**

  
Signature

Gregory L. Bradley, Reg. No. 34,299  
MEDRAD, Inc.  
One Medrad Drive  
Indianola, PA 15051

Dated: 10/6/2006

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to "Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450" [37 CFR 1.8(a)] on	
10/6/06	
(Date)	
Signature of Person Mailing Correspondence	
Susan M. Lloyd	
Typed or Printed Name of Person Mailing Correspondence	

Customer No.:

CC:

OCT 17 2006 P17/REV04

# UNITED STATES PATENT AND TRADEMARK OFFICE

## CERTIFICATE OF CORRECTION

PATENT NO. : 7,079,886

DATED : July 18, 2006

INVENTOR(S) : Zatezalo et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

**In the Specification:**

In column 1, line 57, delete "patent's" and substitute -- patient's --.

In column 4, line 17 - 18, delete "for desired purpose" and substitute - for a desired purpose --.

In column 4, line 27, delete "flowrate" and substitute - flow rate --.

In column 4, line 42, delete "patients" and substitute - a patient --.

In column 5, line 5, delete "flowrate" and substitute - flow rate --.

In column 5, line 14, delete "flowrate" and substitute - flow rate --.

In column 5, line 34, delete "flowrate" and substitute - flow rate --.

In column 6, line 33, delete "24" and substitute - 224 --.

In column 9, line 9, delete "to prone" and substitute - to be prone --.

MAILING ADDRESS OF SENDER (Please do not use customer number

PATENT NO. 7,079,886

Page 1/2

No. of additional copies

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OCT 17 2006

# UNITED STATES PATENT AND TRADEMARK OFFICE

## CERTIFICATE OF CORRECTION

PATENT NO. : 7,079,886

DATED : July 18, 2006

INVENTOR(S) : Zatezalo et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

**In the Specification:**

In column 9, line 11, delete "flowrates" and substitute - flow rates --.

In column 9, line 13, delete "flowrates" and substitute - flow rates --.

In column 9, line 34, delete "flowrate" and substitute - flow rate --.

In column 9, line 48, delete "contrasting" and substitute - contrast --.

In column 10, line 29, delete "one of contrast" and substitute - one of a contrast --.

In column 10, lines 39-40, delete "and flow rate" and substitute --and a flow rate--.

In column 11, line 23, delete "phase" and substitute --screen--.

MAILING ADDRESS OF SENDER (Please do not use customer number

PATENT NO. 7,079,886

Page 2/2

No. of additional copies

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001 A & 11111

# UNITED STATES PATENT AND TRADEMARK OFFICE

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In column 5, line 34, delete "flowrate" and substitute - flow rate --.

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In column 11, line 23, delete "phase" and substitute --screen--.

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PATENT NO. 7,079,886

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1

OCT 17 2006





UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

NOVEMBER 09, 2001

PTAS



\*101837754A\*

MEDRAD, INC.  
GREGORY L. BRADLEY  
ONE MEDRAD DRIVE  
INDIANOLA, PA 15051

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 08/28/2001

REEL/FRAME: 012141/0472  
NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

ZATEZALO, DOUGLAS M.

DOC DATE: 01/10/2000

ASSIGNOR:

THOMPSON, JEFFREY JOHN

DOC DATE: 01/12/2000

ASSIGNOR:

RYGG, STEVEN C.

DOC DATE: 01/12/2000

ASSIGNOR:

GRIFFITH, SCOTT R.

DOC DATE: 01/11/2000

ASSIGNOR:

GARDNER, JOHN

DOC DATE: 01/14/2000

ASSIGNOR:

BARBATI, RONALD J.

DOC DATE: 01/12/2000

ASSIGNEE:

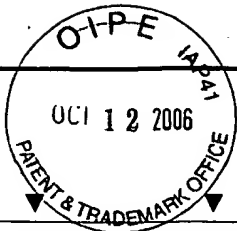
MEDRAD, INC.  
ONE MEDRAD DRIVE  
INDIANOLA, PENNSYLVANIA 15051

012141/0472 PAGE 2

SERIAL NUMBER: 09941224  
PATENT NUMBER:

FILING DATE: 08/28/2001  
ISSUE DATE:

KIMBERLY WHITE, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS



09-10-2001



101837754

Bucket No.: VI/99-016.C

ET

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

Tab settings → → →

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Douglas M. Zatezalo, Jeffrey John Thompson, Steven C. Rygg, Scott R. Griffith, John Gardner, Ronald J. Barbati

08/28/01

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

2. Name and address of receiving party(ies):

Name: MEDRAD, INC.

Address: \_\_\_\_\_

One Medrad Drive

City: Indianola

State/Prov.: PA

Country: United States

ZIP: 15051

Additional name(s) & address(es)

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other \_\_\_\_\_

Execution Date: 1/10; 1/12; 1/12; 1/11; 1/14; 1/12/2000

4. Application number(s) or registration numbers(s):

09/941224

If this document is being filed together with a new application, the execution date of the application is: August 28, 2001

Patent Application No.

Filing date

B. Patent No.(s)

To be assigned

August 28, 2001

Additional numbers

☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Gregory L. Bradley

Registration No. 34, 299

Address: MEDRAD, INC.

One Medrad Drive

City: Indianola

State/Prov.: PA

Country: United States

ZIP: 15051

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41):.....\$ 40.00

☒ Enclosed - Any excess or insufficiency should be credited or debited to deposit account

☐ Authorized to be charged to deposit account

8. Deposit account number:

13-2530

9. Statement and signature:

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Gregory L. Bradley

Name of Person Signing

Gregory L. Bradley

Signature

August 28, 2001

Date

Total number of pages including cover sheet, attachments, and

6



09/07/2001 LIMELE 00000152 09941224 40.00 OP 01 FC:591

## **ASSIGNMENT**

WHEREAS, We, **Doug Zatezalo**, a citizen and resident of the United States of America, whose post office address is 3134 Deerwood Drive, Allison Park, PA 15101; and **Jeffrey John Thompson**, a citizen and resident of the United States of America, whose post office address is 4057 Tall Timber Drive, Allison Park, PA 15101; and **Steven C. Rygg**, a citizen and resident of the United States of America, whose post office address is 121 Maplewood Drive, Irwin, PA 15642; and **Scott R. Griffith**, whose post office address is 61 Bel Aire Drive, Delmont, PA 15626; and **John Gardner**, a citizen and resident of the United States of America, whose post office address is 10202 Fawn Ct., Wexford, PA 15090; and **Ronald Barbati**, a citizen and resident of the United States of America, whose post office address is 460 Sage Drive, Pittsburgh, PA 15243 (hereinafter collectively referred to as ASSIGNOR), have invented within the United States and own a certain invention entitled

### **PROGRAMMABLE INJECTOR CONTROL**

which is described in an application for Letters Patent of the United States of America filed on July 30, 1999 and assigned application Serial No. 09/365,278; and

WHEREAS, Medrad, Inc., a corporation organized and existing under the laws of the State of Delaware and having a place of business at One Medrad Drive, Indianola, PA 15051 (hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire interest in, to and under said invention and in, to and under Letters Patent or similar legal protection to be obtained therefor in the United States and in any and all foreign countries.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that in consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the full and exclusive right, title and interest to said invention in the United States and its territorial possessions and in all foreign countries, said application for Letters Patent, and any and all issued Letters Patent or similar legal protection in the United States and its territorial possessions and in any and all foreign countries to be obtained for said invention by said application or any continuation, divisional, renewal, substitute or reissue thereof or any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted.

ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States to ASSIGNEE.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale; and

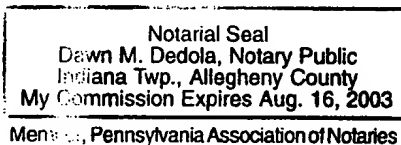
ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof in any foreign country which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, We have hereunto set our hands and seals this 10<sup>th</sup> day of January, 2000.

Douglas M. Zatezalo  
Doug Zatezalo

STATE OF Pennsylvania )  
 ) ss.  
COUNTY OF Allegheny )

**BE IT KNOWN**, that on this 10 day of January, 2000 before me personally came Doug Zatezalo to me known to be the person mentioned in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed for the use and purposes therein mentioned.



Laura M. Dechle  
Notary Public

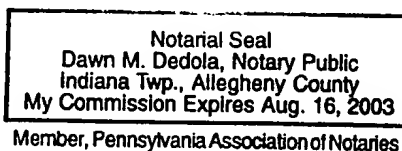
IN WITNESS WHEREOF, We have hereunto set our hands and seals this 12  
day of January, 2000.

  
Jeffrey John Thompson

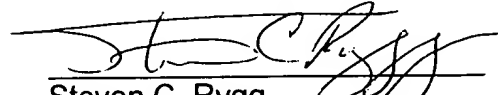
STATE OF Pennsylvania )  
 ) ss.  
COUNTY OF Allegheny )

**BE IT KNOWN**, that on this 12 day of January, 2000, before me personally came Jeffrey John Thompson to me known to be the person mentioned in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed for the use and purposes therein mentioned.

Notary Public

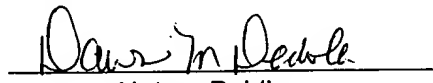


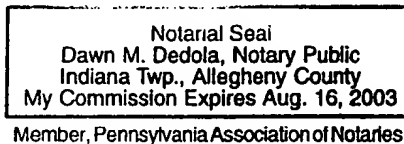
IN WITNESS WHEREOF, We have hereunto set our hands and seals this 12  
day of January, 2000.

  
Steven C. Rygg

STATE OF Pennsylvania                    )  
  ) ss.  
COUNTY OF Allegheny                    )

**BE IT KNOWN**, that on this 12 day of January, 2000, before me personally came Steven C. Rygg to me known to be the person mentioned in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed for the use and purposes therein mentioned.

  
Notary Public

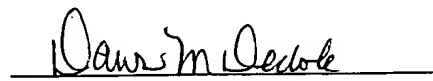


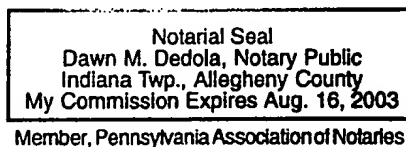
IN WITNESS WHEREOF, We have hereunto set our hands and seals this 11  
day of January, 2000.

  
Scott R. Griffith

STATE OF Pennsylvania                    )  
  ) ss.  
COUNTY OF Allegheny                    )

**BE IT KNOWN**, that on this 11 day of January, 2000, before me personally came Scott R. Griffith to me known to be the person mentioned in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed for the use and purposes therein mentioned.

  
Notary Public

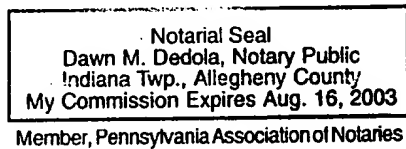


IN WITNESS WHEREOF, We have hereunto set our hands and seals this 1/14/00  
day of January, 2000.

  
\_\_\_\_\_  
John Gardner

STATE OF Pennsylvania                    )  
  ) ss.  
COUNTY OF Allegheny                    )

**BE IT KNOWN**, that on this 14 day of January, 2000, before me personally came John Gardner to me known to be the person mentioned in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed for the use and purposes therein mentioned.



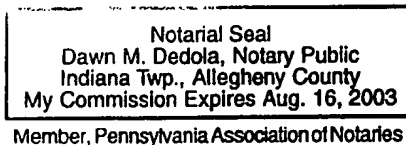
  
\_\_\_\_\_  
Notary Public

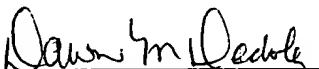
IN WITNESS WHEREOF, We have hereunto set our hands and seals this 1-12-2000  
day of January, 2000.

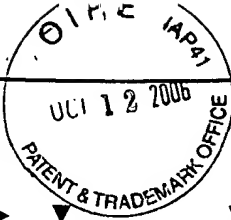
  
\_\_\_\_\_  
Ronald Barbati

STATE OF Pennsylvania                    )  
  ) ss.  
COUNTY OF Allegheny                    )

**BE IT KNOWN**, that on this 12 day of January, 2000, before me personally came Ronald Barbati to me known to be the person mentioned in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed for the use and purposes therein mentioned.



  
\_\_\_\_\_  
Notary Public



RECORDATION FORM COVER SHEET

cket No.: VI/99-016.C

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

**PATENTS ONLY**

Tab settings → → →

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Douglas M. Zatezalo, Jeffrey John Thompson, Steven C.  
Rygg, Scott R. Griffith, John Gardner, Ronald J. Barbati

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

2. Name and address of receiving party(ies):

Name: MEDRAD, INC.

Address: \_\_\_\_\_

One Medrad Drive

City: Indianola State/Prov.: PA

Country: United States ZIP: 15051

Additional name(s) & address(es)

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other \_\_\_\_\_

Execution Date: 1/10; 1/12; 1/12; 1/11; 1/14; 1/12/2000

4. Application number(s) or registration numbers(s):

If this document is being filed together with a new application, the execution date of the application is: August 28, 2001

Patent Application No.

Filing date

B. Patent No.(s)

To be assigned

August 28, 2001

Additional numbers

☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Gregory L. Bradley

Registration No. 34, 299

Address: MEDRAD, INC.

One Medrad Drive

City: Indianola State/Prov.: PA

Country: United States ZIP: 15051

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41):.....\$ 40.00

☒ Enclosed - Any excess or insufficiency should be credited or debited to deposit account

☐ Authorized to be charged to deposit account

8. Deposit account number:

13-2530

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Gregory L. Bradley

Name of Person Signing

Signature

August 28, 2001

Date

6

Total number of pages including cover sheet, attachments, and

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